

**ABSTRACT****SIGNAL SAMPLE ACQUISITION TECHNIQUES**

Sample acquisition apparatus for sampling first and second signals within a signal processing arrangement, said apparatus comprising a sampler for capturing sections of the waveforms of both the first and second signals, a switch for alternating correction of the sampler to a point in the arrangement where said first signal can be sampled and a point in said arrangement where said second signal can be sampled and a timer for timing the operation of the switch to cause the sampler to capture a first waveform section of said first signal and a second waveform section of said second signal, wherein said second signal is responsive to said first signal and the timing of said switch is such that said second section comprises a portion that has been generated in response to said first section.